Dispense head VTOI-A-V8-30D3-U14-08-V-S015-1 Part number: 8114038

FESTO



General operating condition

Data sheet

Operating pressure Operating oper	Feature	Value
Deperating pressure -0.2 bar 0.65 bar	Valve function	2/2, closed, monostable
Departing pressure -2.9 psi 9.425 psi	Operating pressure	-0.02 MPa 0.065 MPa
Internal volume 10 µf fluid space valve 178 µf distributor block with valve, needle and fittings 10 mm 10 µf fluid space valve 178 µf distributor block with valve, needle and fittings 10 mm 10	Operating pressure	-0.2 bar 0.65 bar
1.78 μl distributor block with valve, needle and fittings Jominal width Jominal width of dosing needle Jominal width dimension Jominal width dimension Jominal width dimension Jominal operating voltage DC Journal operating voltage DC Journal operating voltage Bluctuations Journal on one dium Journal on one dium Journal one medium Journal one	Operating pressure	-2.9 psi 9.425 psi
All dominal width of dosing needle ength of dosing needle ength of dosing needle 30 mm Width dimension 9 mm Sealing principle Soft Adounting position Vertical Reset method Mechanical spring Uye of control Direct Suitability for vacuum Yes Alin. dosing volume 1 µl Soto en dosing volume Depending on the configuration, environment and application Sypical dosing precision Sypical dosing precision Depending on the configuration, environment and application Sypical dosing precision Depending on the configuration, environment and application Sypical dosing precision Depending on the configuration, environment and application Sypical dosing precision Depending on the configuration, environment and application Suty cycle 100% Selectrical power consumption 2 W Sominal operating voltage DC 24 V Vermissible voltage fluctuations Aledium Liquid media Gaseous media Gaseous media Gaseous media Maximum particle size 20 µm Supplication note See application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O · No corrosion stress Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O · No corrosion stress Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O · No corrosion stress Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O · No corrosion stress Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O · No corrosion stress Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O · No corrosion stress Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resist	Internal volume	', ', ', ', ', ', ', ', ', ', ', ', ',
ength of dosing needle Width dimension 9 mm Sealing principle Soft Adounting position Vertical Reser method Mechanical spring Pype of control Direct Suitability for vacuum yes Alin. dosing volume 1 µl Soto en dosing volume Depending on the configuration, environment and application sypical dosing precision Sysintar-run CV Soto en dosing precision Depending on the configuration, environment and application Puty cycle 100% Silectrical power consumption 2 W Sominal operating voltage DC 24 V Permissible voltage fluctuations Application note Aliguid media Gaseous media Information on medium Maximum particle size 20 µm Sea application note (available on the support portal at festo.com) Aligration resistance Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-2 forosoin resistance class (CRC) O No corrosion stress ABS (PWIS) conformity VDMA24364-B2-L Sororage temperature Soc 40 °C Soc 50 °C Deperation protection IP30	Nominal width	0.8 mm
Virith dimension 9 mm Sealing principle Soft Abounting position Vertical Mechanical spring Yee of control Direct Suitability for vacuum Vess Alin. dosing volume 1 μl Note on dosing volume Depending on the configuration, environment and application Vertical Vertical Possible voltage precision Soft tip-to-tip CV Soft itip-to-tip CV Soft itip-to-	Nominal width of dosing needle	0.3 mm
Soft Mounting position Vertical Reset method Mechanical spring Vipe of control Direct Suitability for vacuum Min. dosing volume Opending on the configuration, environment and application Vipical dosing precision Sypical dosing precision Sypical dosing precision Depending on the configuration, environment and application Vity cycle 100% Electrical power consumption Depending on the configuration, environment and application Vity cycle 100% Electrical power consumption Vity dominal operating voltage DC Vermissible voltage fluctuations Vermissible voltage f	Length of dosing needle	30 mm
Abounting position Vertical Reset method Reset method Reset method Mechanical spring Pype of control Direct Suitability for vacuum Ves Alin. dosing volume 1 µl Depending on the configuration, environment and application Vypical dosing precision S 5 % tip-to-tip CV 3 % intra-run CV Note on dosing precision Depending on the configuration, environment and application Duty cycle 100% Relectrical power consumption 2 W Remissible voltage fluctuations H/- 10 % Redium Liquid media Gaseous media Assocus media Information on medium Application note See application note (available on the support portal at festo.com) Transport application test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance Shock resistance Shock resistance (CRC) O - No corrosion stress ABS (PWIS) conformity VDMA24364-B2-L Storage temperature 5 ° C 40 ° C Remerature of medium See of protection IP30	Width dimension	9 mm
Reset method Mechanical spring Direct Direc	Sealing principle	Soft
Direct	Mounting position	Vertical
yes Ain. dosing volume 1 µl Ain. dosing volume Depending on the configuration, environment and application ypical dosing precision \$ 5 % tip-to-tip CV \$ 3 % intra-run CV Ainte on dosing precision Depending on the configuration, environment and application Outy cycle 100% Electrical power consumption Outy cycle 24 V Aintering voltage DC Permissible voltage fluctuations Aedium Liquid media Gaseous media Anoformation on medium Application note Application note Application note Application resistance Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O - No corrosion stress ABS (PWIS) conformity VDMA24364-B2-L Storage temperature S ° C 40 ° C Emperature of medium S ege of protection IP30	Reset method	Mechanical spring
Ain. dosing volume 1	Type of control	Direct
Depending on the configuration, environment and application sypical dosing precision symical dosing precision Depending on the configuration, environment and application Depending on the configuration D	Suitability for vacuum	yes
ypical dosing precision \$ 5 % tip-to-tip CV \$ 3% intra-run CV \$ 3% intra-run CV \$ 300 to e on dosing precision Depending on the configuration, environment and application to the continuity cycle 100% Electrical power consumption 2 W Adminal operating voltage DC Permissible voltage fluctuations 4/- 10 % Adedium Liquid media Gaseous media Information on medium Application note See application note (available on the support portal at festo.com) Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O - No corrosion stress ABS (PWIS) conformity VDMA24364-B2-L Storage temperature 5 ° C 40 ° C Temperature of medium 5 ° C 50 ° C Degree of protection	Min. dosing volume	1 μl
Some standard of the support portal at festo.com Some standard of the support portal	Note on dosing volume	Depending on the configuration, environment and application
Duty cycle Illow Electrical power consumption Illow Bominal operating voltage DC Permissible voltage fluctuations Addium Liquid media Gaseous media Information on medium Application note See application note (available on the support portal at festo.com) Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Forrosion resistance class (CRC) O - No corrosion stress ABS (PWIS) conformity VDMA24364-B2-L Storage temperature 5 °C 40 °C Femperature of medium 5 °C 50 °C Degree of protection	Typical dosing precision	· · · · · · · · · · · · · · · · · · ·
Electrical power consumption Adminal operating voltage DC Permissible voltage fluctuations Adedium Liquid media Gaseous media Maximum particle size 20 µm Application note Application note See application note (available on the support portal at festo.com) Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O - No corrosion stress ABS (PWIS) conformity VDMA24364-B2-L Storage temperature 5 °C 40 °C Temperature of medium 5 °C 50 °C Degree of protection	Note on dosing precision	Depending on the configuration, environment and application
Alominal operating voltage DC Permissible voltage fluctuations Addium Liquid media Gaseous media Information on medium Application note See application note (available on the support portal at festo.com) Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O - No corrosion stress ABS (PWIS) conformity VDMA24364-B2-L Storage temperature 5 °C 40 °C Femperature of medium 5 °C 50 °C Degree of protection IP30	Duty cycle	100%
Permissible voltage fluctuations Adedium Liquid media Gaseous media Information on medium Application note See application note (available on the support portal at festo.com) Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O - No corrosion stress ABS (PWIS) conformity VDMA24364-B2-L Storage temperature 5 °C 40 °C Temperature of medium 5 °C 50 °C Degree of protection IP30	Electrical power consumption	2 W
MediumLiquid media Gaseous mediaInformation on mediumMaximum particle size 20 μmApplication noteSee application note (available on the support portal at festo.com)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 as per FN 942017-5 and EN 60068-2-27Corrosion resistance class (CRC)0 - No corrosion stressABS (PWIS) conformityVDMA24364-B2-LStorage temperature5 °C 40 °CTemperature of medium5 °C 50 °CDegree of protectionIP30	Nominal operating voltage DC	24 V
Gaseous media Maximum particle size 20 μm Application note See application note (available on the support portal at festo.com) Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O - No corrosion stress ABS (PWIS) conformity VDMA24364-B2-L Storage temperature 5 °C 40 °C Temperature of medium 5 °C 50 °C Degree of protection	Permissible voltage fluctuations	+/- 10 %
Application note See application note (available on the support portal at festo.com) Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O - No corrosion stress ABS (PWIS) conformity VDMA24364-B2-L Storage temperature 5 °C 40 °C Temperature of medium 5 °C 50 °C Degree of protection IP30	Medium	'
Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O - No corrosion stress ABS (PWIS) conformity VDMA24364-B2-L Storage temperature 5 °C 40 °C Temperature of medium 5 °C 50 °C Degree of protection IP30	Information on medium	Maximum particle size 20 μm
EN 60068-2-6 Shock resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O - No corrosion stress ABS (PWIS) conformity VDMA24364-B2-L Storage temperature 5 °C 40 °C Temperature of medium 5 °C 50 °C Degree of protection IP30	Application note	See application note (available on the support portal at festo.com)
Corrosion resistance class (CRC) 0 - No corrosion stress VDMA24364-B2-L Storage temperature 5 °C 40 °C Temperature of medium 5 °C 50 °C IP30	Vibration resistance	Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6
ABS (PWIS) conformity VDMA24364-B2-L Storage temperature 5 °C 40 °C Temperature of medium 5 °C 50 °C IP30	Shock resistance	Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27
Storage temperature 5 °C 40 °C Temperature of medium 5 °C 50 °C Degree of protection IP30	Corrosion resistance class (CRC)	0 - No corrosion stress
Femperature of medium 5 °C 50 °C Degree of protection IP30	LABS (PWIS) conformity	VDMA24364-B2-L
Degree of protection IP30	Storage temperature	5 °C 40 °C
	Temperature of medium	5 °C 50 °C
lote on degree of protection In mounted state	Degree of protection	IP30
	Note on degree of protection	In mounted state

Feature	Value
Ambient temperature	5 °C 40 °C
Product weight	55 g
Electrical connection	2-wire 2x single wires Open end
Cable length	0.15 m
Wire ends	Stripped
Nominal conductor cross section	AWG28
Type of mounting	With through-hole for M3 screw
Fluid connector	Internal thread 1/4-28 UNF-2B
Note on fluid connector	Fitting enclosed for pneumatic tubing with 3 mm outside diameter
Material of dosing needle	High-alloy stainless steel
Material number for dosing needle	1.4404
Note on materials	RoHS-compliant
Materials in contact with the media	ETFE FPM PEI PPS High-alloy stainless steel
Actuation type	Electrical
Nominal altitude of use above sea level	<= 2000 m NHN
Relative air humidity	0 - 95 % Non-condensing